

REMARKS

Receipt of the Office Action of March 18, 2010 is gratefully acknowledged.

Claims 19 - 36 have been examined with the following results: claims 19 - 36 are rejected under 35 USC 102(e) by DeWolfe et al; claims 32 - 36 are rejected under 35 USC 112, first paragraph because they are enabling for device type managers (DTM); claims 34 and 35 are rejected also under 35 USC 112, first paragraph because they are not enabling for control files; and claims 34 and 35 are rejected under 35 USC 112, second paragraph as indefinite.

The two rejections under 35 USC 112, first paragraph and the two rejections under 35 USC 112, second paragraph are joined with an objection to the specification because it does not "provide antecedent basis for the claimed subject matter," i.e., the DTM and the control files.

The objection to the specification and the two rejections under 35 USC 112 are respectfully traversed.

Regarding the Device Type Managers (DTM), they are well known by those skilled in the automation art. For example see the download sponsored by the assignee of the present invention (Endress + Hauser) submitted herewith. This download defines what is the general understanding of a DTM (a software driver developed by the device manufacturer). In addition, page 7 of the specification identifies the Profibus Guideline - Order No. 2.162, which provides "further information on DTMs." This disclosure is sufficient to satisfy the enablement requirement of 35 USC 112.

Regarding the control files, they are nothing more than the "maintenance plan....for the asset management system" as noted on page 7 of the specification. The maintenance plan is defined, therefore, the control file is defined.

Regarding the art rejection, it too is respectfully traversed.

For better defining the invention over the art, claim 19 has been amended and claim 29 cancelled with its subject matter, basically included in claim 19. This amendment to claim 19 is believed to patentably distinguish over the art of record.

In view of the foregoing, reconsideration and reexamination are respectfully requested and claims 19 - 28 and 30 - 36 found allowable.

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Respectfully submitted,
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FDT - Field Device Tool

Open standard for device and system integration

Technology	Architecture	Device overview	Documents	Fieldbus laboratory
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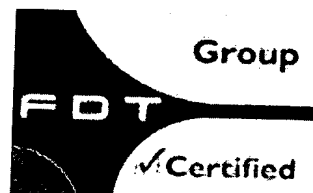
How does FDT/DTM work?

FDT Frame Application
Device DTM
CommDTM
Freedom of Choice
Investment Protection

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How does FDT/DTM work?

The essential parts of FDT technology are the frame application (FDT Frame) and the so-called Device Type Managers (Device DTM and CommDTM), which are available for field devices and communication equipment. The two components could be likened to the Print Manager in a Windows Office program and the Print Drivers that must be installed to make printers work and which contain a graphical user interface for their configuration.

Please [click here](#) for a schema.

FDT Frame Application

The FDT frame is the hosting or stand-alone application and communicate with the device drivers via a set of standardised interfaces. All data are exchanged through these interfaces, including those generated within the application for engineering, DTM management and device configuration. It is no longer necessary to use proprietary interfaces to operate devices or build up communication paths. Frame applications can be device configuration tools, control system-engineering tools, operator consoles or asset management tools. The frame application is also open to all communication technologies, e.g. for HART®, PROFIBUS® or FOUNDATION fieldbus™. Proprietary service bus protocols can also be integrated simply into the frame application because of the standardised interface.

Please [click here](#) for a schema.

Device DTM

The Device DTM is a software driver developed by the device manufacturer for each of his devices or group of devices. The DTM encapsulates all the device-specific data, functions and management rules such as the device functions, its communication capabilities, internal data structure and dependencies as well as the user interface elements. It provides functions for accessing device parameters, configuring and operating the devices, calibrating, and diagnosing problems. DTMs can range from a simple user interface for setting device parameters to a highly sophisticated application. They may perform complex calculations for diagnosis and maintenance purposes or display results in the form of curves, trends and other graphical elements.

CommDTM

For communication equipment, such as gateways, multiplexers and other hardware interfaces a CommDTM is required. Like any communication driver, this converts data from one protocol to another, but with the difference that the integration into the system is via a standardised FDT rather than a proprietary interface. This means that users wishing to integrate existing communication equipment into a FDT frame application require only the corresponding CommDTMs. Similarly, vendors need only modify their existing drivers to include a FDT interface and their equipment can be integrated into any FDT frame application.

Freedom of Choice

Open communication interfaces

FDT integrates (field) devices from any manufacturer via so-called Device Type Management files (DTMs) into frame applications, i.e. control systems, engineering tools and asset management tools.

Uniform user interface

General func

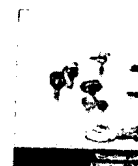
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Plant Asset I

The device engineering, operation and maintenance information is displayed on a uniform graphical interface.

Platform independent

Any Device DTM can be accessed by any FDT frame, independent of the host operating system.

Fieldbus independent

The FDT frame and the device DTM have communication interfaces for HART®, PROFIBUS®, FOUNDATION fieldbus™ and many more.

Please [click here](#) for a schema.

Investment Protection**Existing DDs can be used...**

... to build DTMs. FDT expands the capabilities of DDs for digital devices and their associated graphical user Interface.

Existing communication infrastructure can be used

The technology is independent of the system communication hardware. FDT/DTM is solely based on existing communication software.

Ensures technology migration

Microsoft provides tools to migrate COM based products to .NET technology; FDT is extendable by adding new interfaces for functional enhancements.

Please [click here](#) for a schema.



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DTM downlo

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Life Cycle M:

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